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AMENDMENT UNDER 37 C.F.R. §1.116

D1 a molecular weight of 70,800, cleaving heparan sulfate, and
having a pH optimum of 9.9-10.1.

5. (twice amended) A method for purifying heparinase
I, II, and III from a biologically pure culture of ~~heparinum~~
D2 ^{heparinum} ~~flavobacterium~~ comprising the steps of
lysing *Flavobacterium heparinum* cells in a biologically
pure culture of *Flavobacterium heparinum*,
removing cell debris and nucleic acids from the cell
lysate,
absorption of heparinase I, II, and III to
hydroxyapatite,
absorption of non-heparinase I, II, and III proteins to
QAE-resin,
recovery of the heparinase I, II, and III not bound to
the QAE-resin,
separation of heparinase I, II, and III by HPLC on a
hydroxylapatite column,
recovery of the heparinase I, II, and III separated on
the hydroxylapatite column,
purification of the separated heparinases by cation
exchange FPLC, [and]
recovery of the heparinase I, II, and III separated by
cation exchange FPLC,